

CLAIM OR CLAIMS

What I claim as my invention is:

- [1] An electrical propulsion device comprising a pair of parallel conducting plates, each of which comprises an array of conducting segments.
- [2] The propulsion device of claim 1, wherein the 2 parallel plates are a distance apart, separated by a non-conducting medium.
- [3] The propulsion device of claim 1, wherein each plate comprises a set of conducting segments, aligned in a grid structure.
- [4] The propulsion device of claim 1, wherein each conducting segment is of a length equal to the separation of the plates.
- [5] The propulsion device of claim 1, wherein the conducting segments of each plate are pulsed with current I at a frequency dependent on the separation of the plates, as in FIGs 1 and 2.
- [6] The propulsion device of claim 1, wherein the currents in the two plates are phased, as in W1 and W2 of FIG 2.
- [7] The propulsion device of claim 1, wherein each of the two plates has M conducting segments in the x direction; M is fixed for a particular propulsion system, but may vary for different propulsion systems.
- [8] The propulsion device of claim 1, wherein each of the two plates has N elements in the y direction; N is fixed for a particular propulsion system, but may vary for different propulsion systems.
- [9] The propulsion device of claim 1, wherein the dimensions M and N of each of the two plates may be equal, but they need not be equal.

- [10] The propulsion device of claim 1, wherein the conducting segments, are separated by gaps in the direction parallel to current (the x direction), and by gaps normal to the current (the y direction) (FIGs 5 and 8).
- [11] The conducting segments of claim 1, wherein the individual segments may be fabricated from conventional conductors or superconductors.
- [12] The conducting plates of claim 1, wherein the plates are rectangular, but need not be rectangular.
- [13] The propulsion device of claim 1, wherein the application of phased current to the pair of plates causes a one-directional force in the device as a whole.